



The rising challenge of Lyme borreliosis in Canada

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Abstract:

Lyme borreliosis (LB), caused by bacteria of the *Borrelia burgdorferi* sensu lato complex, is the most common vector-borne disease in the temperate zone and occurs in Europe, North America and Asia. Early LB is characterized by a skin lesion, erythema migrans (EM), which expands further than 5 cm from the tick bite, accompanied by flu-like symptoms, arthralgias, myalgias and fever. If untreated, the disease can progress to early disseminated LB with neurological involvement (particularly cranial neuropathies) and cardiac involvement (particularly atrioventricular heart block and myopericarditis). Late disseminated LB includes central and peripheral neurological manifestations and Lyme arthritis.... Recent studies indicate that the number of established populations of *I. scapularis* tick vectors is increasing in Canada and that climate change is likely to accelerate this trend.... We review here the significance of recent studies of the distribution of LB tick vectors in Canada and consider what steps may need to be taken to prepare for the challenge of LB in the coming decades.

Source: <http://www.phac-aspc.gc.ca/publicat/ccdr-rmtc/08vol34/dr-rm3401a-eng.php>

Resource Description

Climate Scenario :

specification of climate scenario (set of assumptions about future states related to climate)

Special Report on Emissions Scenarios (SRES)

Special Report on Emissions Scenarios (SRES) Scenario: SRES A2

Communication:

resource focus on research or methods on how to communicate or frame issues on climate change; surveys of attitudes, knowledge, beliefs about climate change

A focus of content

Communication Audience:

audience to whom the resource is directed

Health Professional



Climate Change and Human Health Literature Portal

Exposure :

weather or climate related pathway by which climate change affects health

Ecosystem Changes, Temperature

Temperature: Fluctuations

Geographic Feature:

resource focuses on specific type of geography

None or Unspecified

Geographic Location:

resource focuses on specific location

Non-United States

Non-United States: Non-U.S. North America

Health Impact:

specification of health effect or disease related to climate change exposure

Infectious Disease

Infectious Disease: Vectorborne Disease

Vectorborne Disease: Tick-borne Disease

Tick-borne Disease: Lyme Disease

Intervention:

strategy to prepare for or reduce the impact of climate change on health

A focus of content

Medical Community Engagement:

resource focus on how the medical community discusses or acts to address health impacts of climate change

A focus of content

Mitigation/Adaptation:

mitigation or adaptation strategy is a focus of resource

Adaptation, Mitigation

Model/Methodology:

type of model used or methodology development is a focus of resource

Exposure Change Prediction

Resource Type:

format or standard characteristic of resource

Review

Timescale: ☒

time period studied

Short-Term (

Vulnerability/Impact Assessment: ☒

resource focus on process of identifying, quantifying, and prioritizing vulnerabilities in a system

A focus of content